

ABSTRACT

A multibeam transmitting/receiving apparatus is provided that is capable of increasing the accuracy of a direction in which a transmission beam is to be transmitted, with a simple arrangement. Signal power measuring units (8-1 through 8-L) of signal processing means (40-1 through 40-L) measure reception signal power levels averaged over a given time, using outputs from reception beam formers (5-1 through 5-L), and indicate the measured reception signal power levels to transmission antenna weight generator (30). Transmission antenna weight generator (30) generates transmission antenna weights, which has been weighted by a reception signal level, from a transmission antenna weight corresponding to reception signal power level P_1 and a beam number B_1 of a finger having a maximum reception signal power level, and a transmission antenna weight corresponding to reception signal power level P_2 and a beam number B_2 of a finger having the same path timing as the finger having the maximum reception signal power level. The generated transmission antenna weights are used in transmission beam former (16).